INTERNATIONALSEARCHREPORT

International application No. PCT/JP2004/019464

A. CLAS	SSIFICATIONOFSUBJECTMATTER						
Int,Cl7 B	23C 3/00,5/10						
According to	o International Patent Classification (IPC) or to both na	tional classification and IPC					
•	DS SEARCHED						
Minimum do	cumentation searched (classification system followed by	classification symbols)					
	321J 13/02 323C 3/00,5/10	•	•				
	ion searched other than minimum documentation to the e	· '					
Applicati	Utility Model Gazette 1922-1996, Japanes ions 1971-2005, Japanese Registered Utili ng the Utility Model 1996-2005		apanese Gazette				
Electronic da	ita base consulted during the international search (name of	f data base and, where practicable, search ter	ms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
A	JP 2001-105086 A (HONDA MOTO	OR Co., Ltd.)	1-8				
	2001.04.17 (Family:none)	•					
A	JP 2002-239676 A(YUTAKA SE	MITSU KOGYO, Ltd.)	1-8				
	2002.08.27 (Family:none)						
A	JP 9-150305 A(RIKEN)		1-8				
	1997.06.10						
	& US 5919012 A & EP 788040	A1 & DE 69619789 T					
A	JP 6-134648 A		1-8				
	(MAKINO MILLING MACHINE Co.	., Ltd.)					
	1994.05.17 & US 5378091 A & EP 579371	A1 & DE 69326397 T					
			1-8				
A	JP 8-263122 A (HONDA MOTOR (1996.10.11 (Family:none)						
•			•				
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.					
"A" docum	categories of cited documents: ent defining the general state of the art which is not	"T" later document published after the in priority date and not in conflict with the priority date and not in conflict with the priority of th	the application but cited to				
considered to be of particular relevance understand the principle of theory underlying the invention "E" earlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance.							
"L" docume	of filing date ent which may throw doubts on priority claim(s) or which to establish the publication date of another citation or other	be considered novel or cannot be a inventive step when the document is "Y" document of particular relevance; the	taken alone				
special	reason (as specified) ent referring to an oral disclosure, use, exhibition or other	be considered to involve an inventive	step when the document is resuch documents, such				
"P" docume	ent published prior to the international filing date but later or priority date claimed	_					
	actual completion of the international search	Date of mailing of the international search	h report				
·	10.03.2005	29. 3.	2005				
Name and m	10.03.2005 nailing address of the ISA/JP Authorized officer 3C 8608						
•	Japan Patent Office YOSHIAKI TAMURA						
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 Ext. 3324					

Form PCT/ISA/210 (second sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019464

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement								
Statemen	ŧ		·-					
Novel	ty (N)	Claims		1-8		_ YES _ NO		
Invent	tive step (IS)	Claims		1-8	3	_ YES _ NO		
Indust	trial applicability (IA)	Claims		1-8		_ YES _ NO		
Citations	and explanations					 -		
Γhe subj SR nor ο	ect matter of clair	m 1-8 is neiti on skilled in	her disclosed the art.	d in any of the do	ocuments cited	in the		
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Form PCT/ISA/237 (Box No. V) (January 2004)